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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/553,121 10/14/2005 Shogo Hattori 59494.00023 1738 32294 7590 12/12/2006 **EXAMINER** SQUIRE, SANDERS & DEMPSEY L.L.P. ARGENBRIGHT, TONY MICHAEL 14TH FLOOR ART UNIT PAPER NUMBER 8000 TOWERS CRESCENT TYSONS CORNER, VA 22182 3747

DATE MAILED: 12/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		<i>\</i>
·	Application No.	Applicant(s)
Office Action Summary	10/553,121	HATTORI, SHOGO
	Examiner	Art Unit
	T. M. Argenbright	3747
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wit	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by sI Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC R 1.136(a). In no event, however, may a re t. riod will apply and will expire SIX (6) MON tatute, cause the application to become AB	CATION. Poply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on _		
	This action is non-final.	
3) Since this application is in condition for allo	owance except for formal matte	ers, prosecution as to the merits is
closed in accordance with the practice und	er Ex parte Quayle, 1935 C.D.	. 11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) 1-3 is/are pending in the application	on.	
4a) Of the above claim(s) is/are with	drawn from consideration.	
5)⊠ Claim(s) <u>1 and 2</u> is/are allowed.		
6) Claim(s) 3 is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction ar	nd/or election requirement.	
Application Papers		
9)☐ The specification is objected to by the Exan	niner.	
10)⊠ The drawing(s) filed on 14 October 2005 is/	′are: a)⊠ accepted or b)⊡ ot	ojected to by the Examiner.
Applicant may not request that any objection to		` '
Replacement drawing sheet(s) including the cor		• •
11)☐ The oath or declaration is objected to by the	e Examiner. Note the attached	Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a claim for fore a)⊠ All b)□ Some * c)□ None of:	eign priority under 35 U.S.C. §	119(a)-(d) or (f).
 Certified copies of the priority docum 	ients have been received.	
2. Certified copies of the priority docum		
3. Copies of the certified copies of the		received in this National Stage
application from the International Bu	, , , ,	
* See the attached detailed Office action for a	list of the certified copies not i	received.
Attachment(s)		•
1) X Notice of References Cited (PTO-892)	4) T Interview Si	ummary (PTO-413)
2) 🔲 Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s))/Mail Date
B) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/14/05.	5) Notice of In	formal Patent Application
	,	

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ohsuga et al in view of Gorille et al (GB 2070782). Ohsuga et al discloses a fuel injection control system having airflow sensor 3 downstream of the throttle valve. During the air intake stroke, the control system calculates injection quantity at regular intervals to match the airflow so that the mixture is accurately controlled, column 5, lines 46-66. An integral value of airflow is not used for the fuel calculation. Gorille et al teaches integrating an airflow signal during an intake stroke to accurately match the signal to the actual air amount. It would have been obvious to one with ordinary skill in the art at the time the invention was made to modify Ohsuga et al to use an integrated value of the airflow signal to determine fuel injection amount, as taught by Gorille et al, to provide a more accurate determination of actual airflow and a corresponding increase of fuel injection metering accuracy.

Allowable Subject Matter

Claims 1 and 2 are allowed.

Conclusion

The fuel injection control systems made of record and not relied upon are considered pertinent to applicant's disclosure.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to T. M. Argenbright whose telephone number is 571-272-4837. The examiner can normally be reached M-Th 6:30am-3:00pm and alt. Fridays 6:30am-2:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen K. Cronin can be reached on 571-272-4536. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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